

6.2.1.2.3.2 Test Channel = MCH

6.2.1.2.3.2.1 Test RB = RB1#0





6.2.1.2.3.3 Test Channel = HCH

6.2.1.2.3.3.1 Test RB = RB1#0





6.2.1.2.4 Test Bandwidth = 10

6.2.1.2.4.1 Test Channel = LCH

6.2.1.2.4.1.1 Test RB = RB1#0





6.2.1.2.4.2 Test Channel = MCH

6.2.1.2.4.2.1 Test RB = RB1#0





6.2.1.2.4.3 Test Channel = HCH

6.2.1.2.4.3.1 Test RB = RB1#0





7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

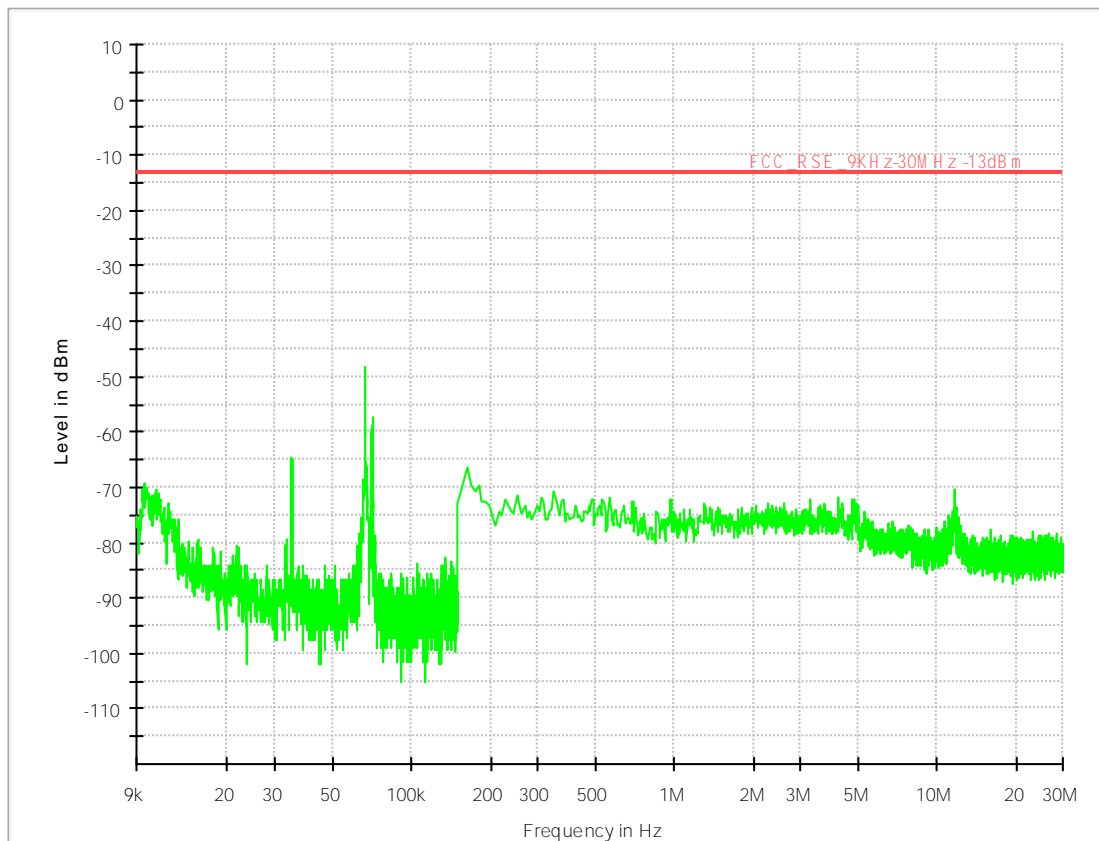
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

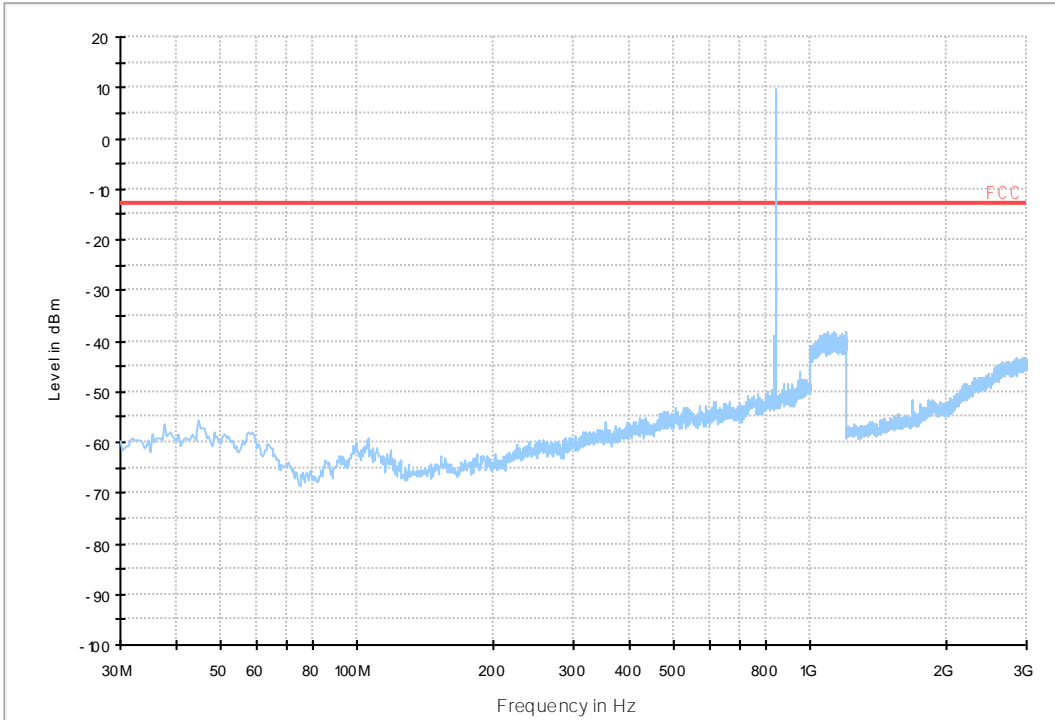
7.1 For LTE

7.1.1 Test Band = BAND5_ANT1

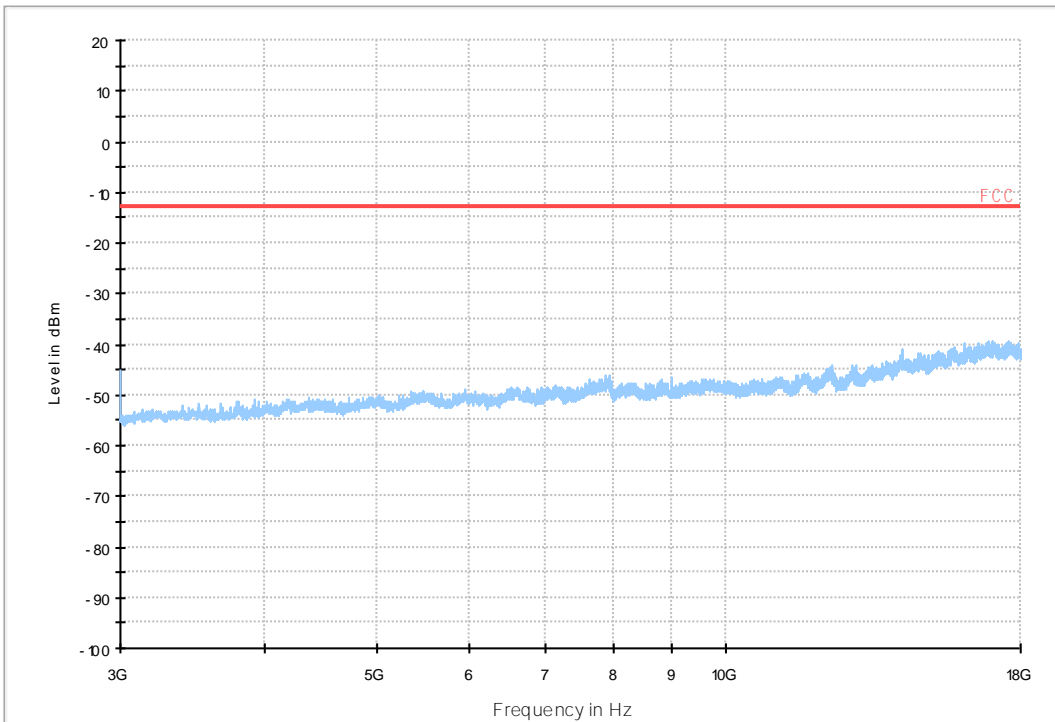
7.1.1.1 Test Bandwidth = 1.4



LTE FDD RSE-TX-DIRECTOR BELOW 1G_L

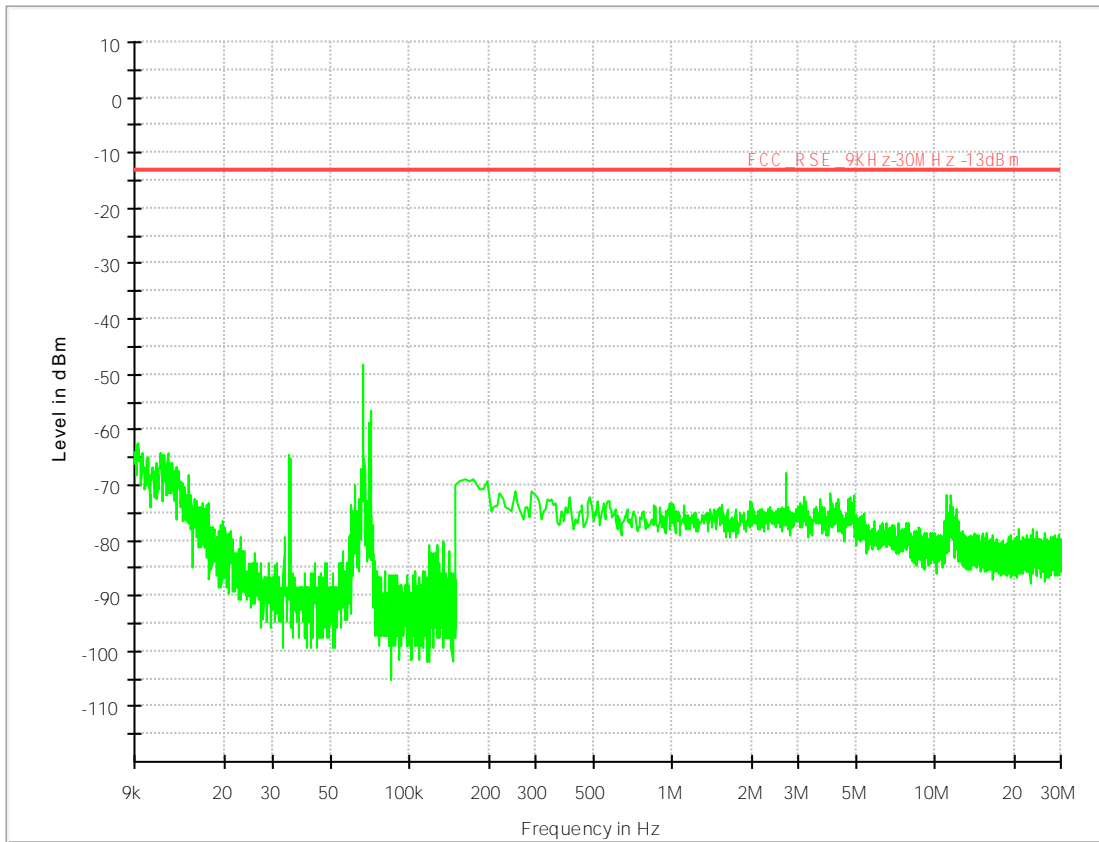


LTE FDD RSE-TX-DIRECTOR BELOW 1G_H



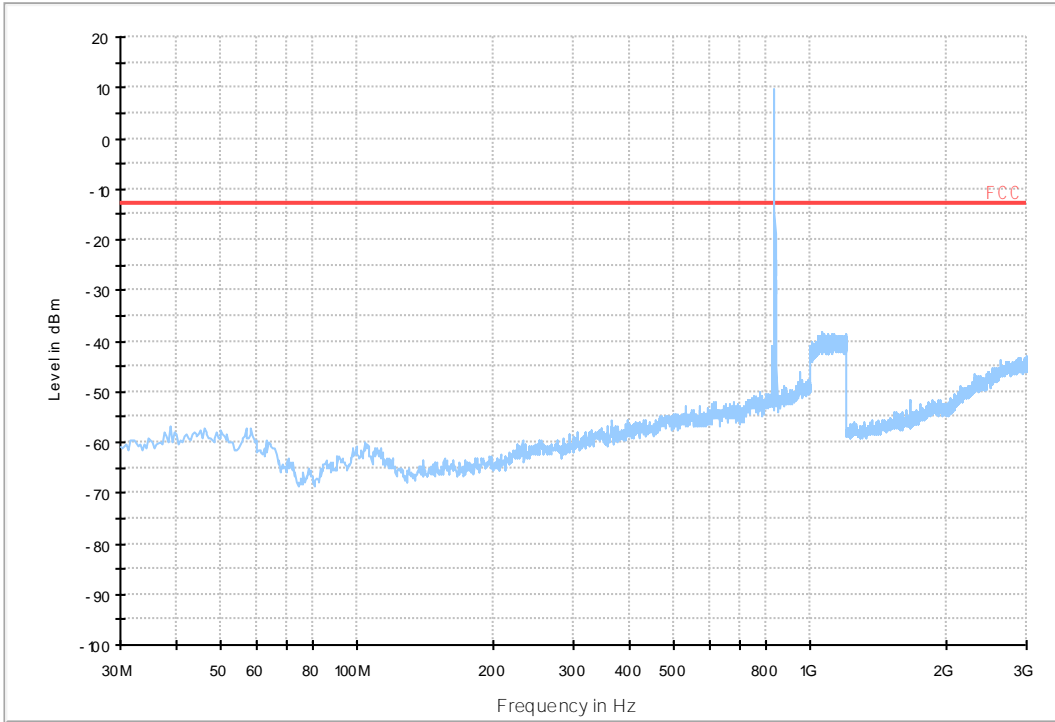


7.1.1.2 Test Bandwidth = 5

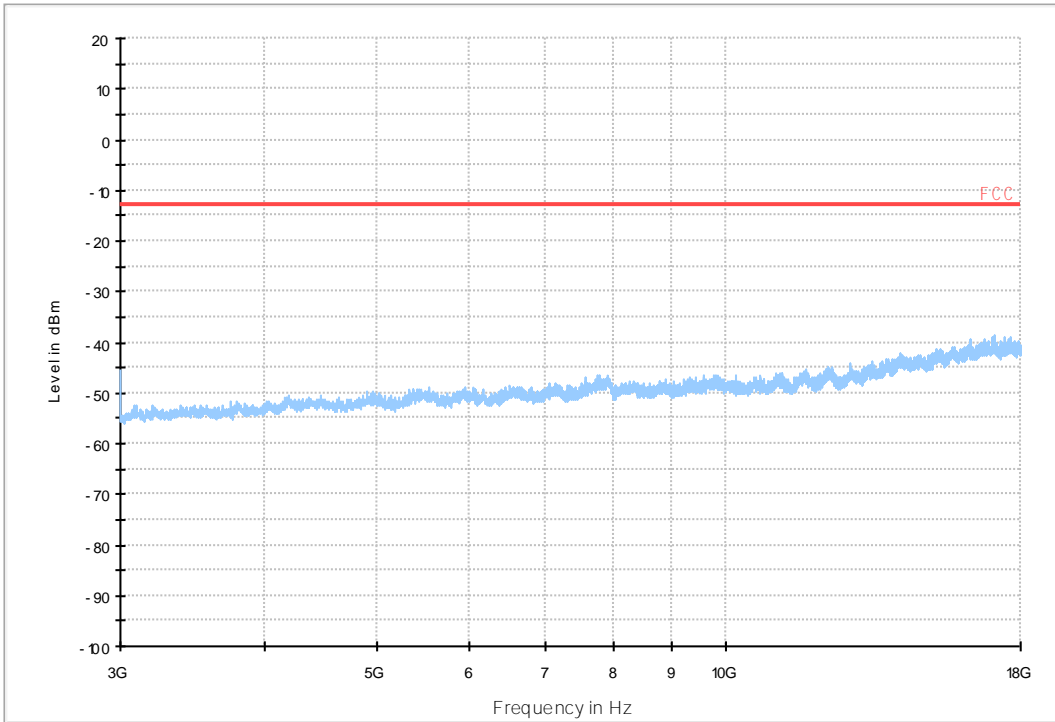




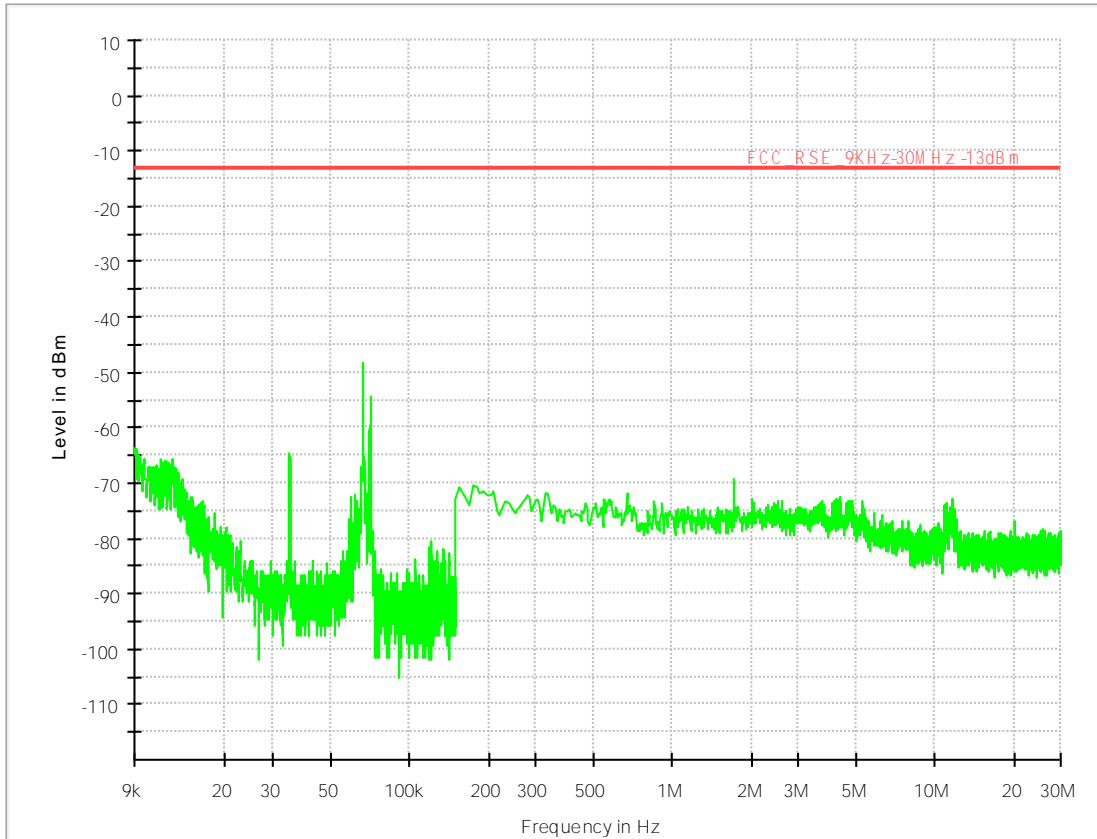
LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



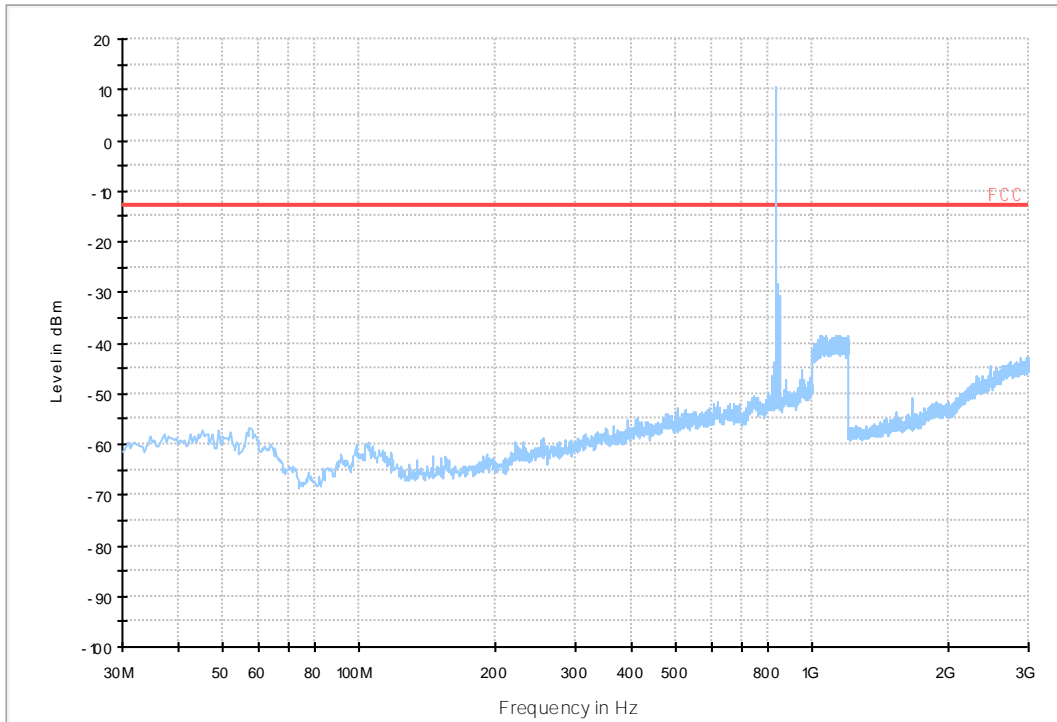
LTE FDD RSE-TX-DIRECTOR BELOW 1G_H



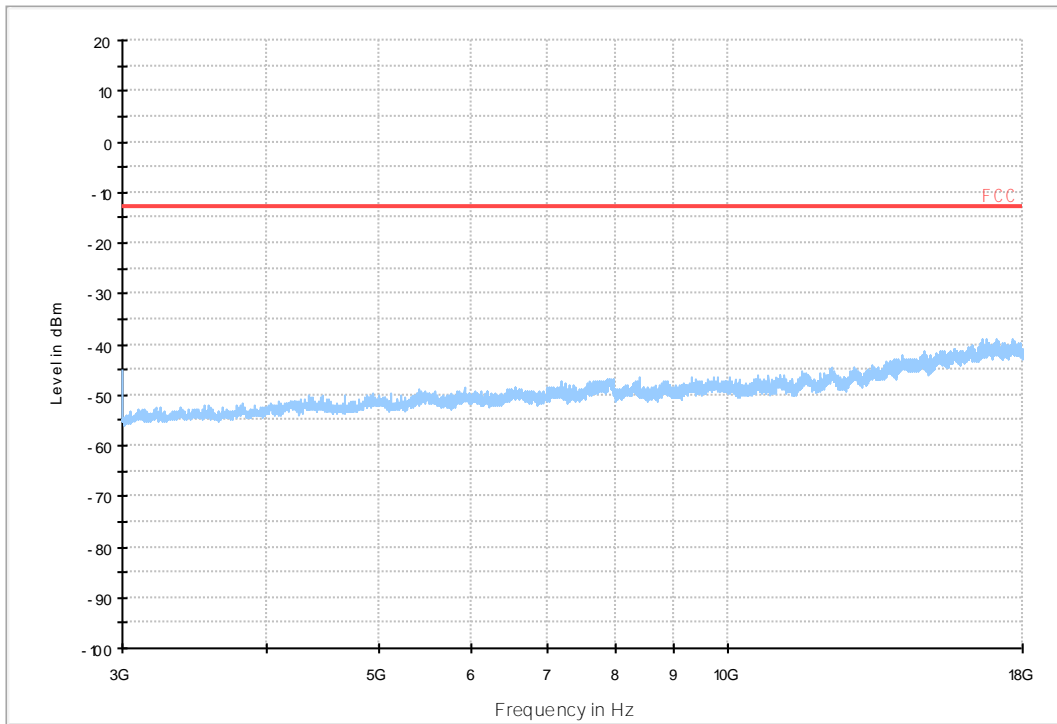
7.1.1.3 Test Bandwidth = 10



LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



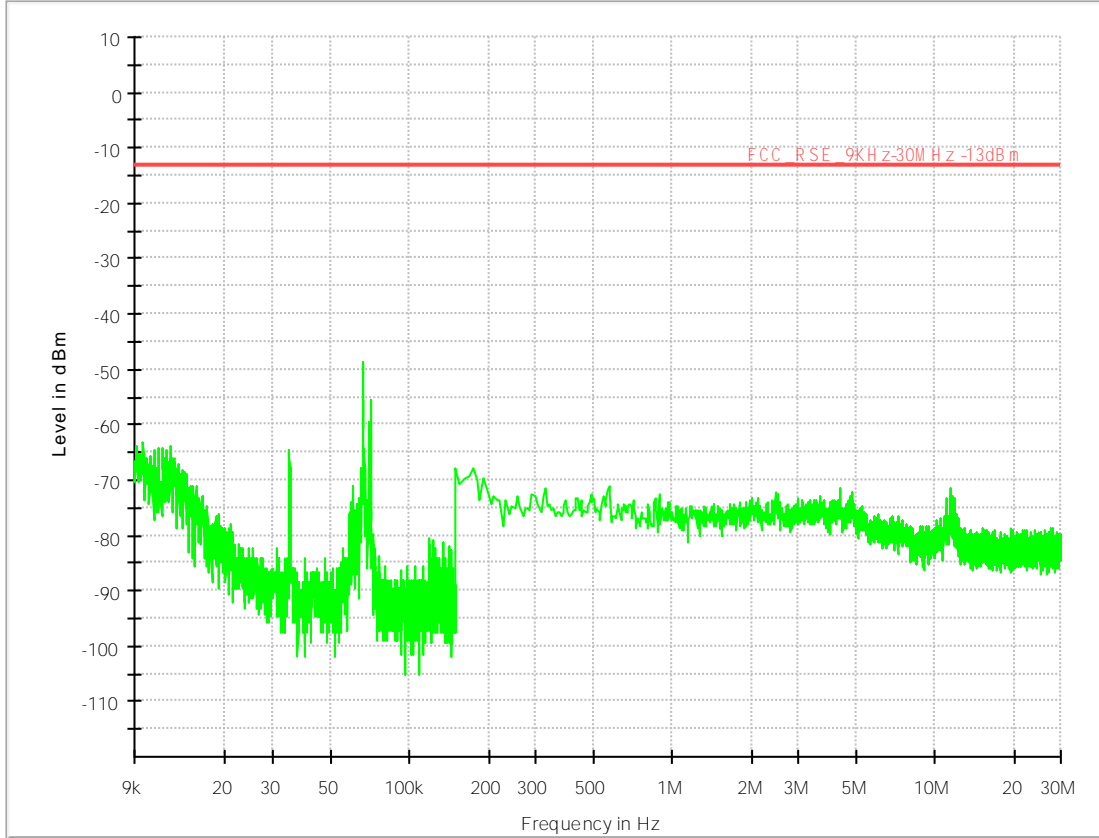
LTE FDD RSE-TX-DIRECTOR BELOW 1G_H



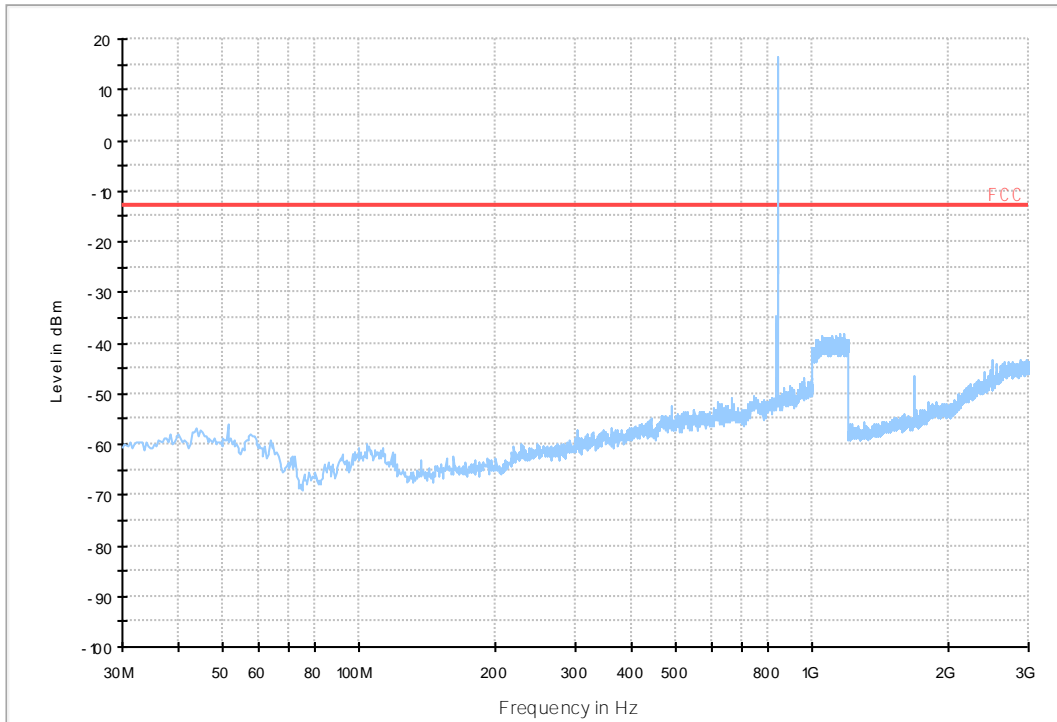


7.1.2 Test Band = BAND5_ANT2

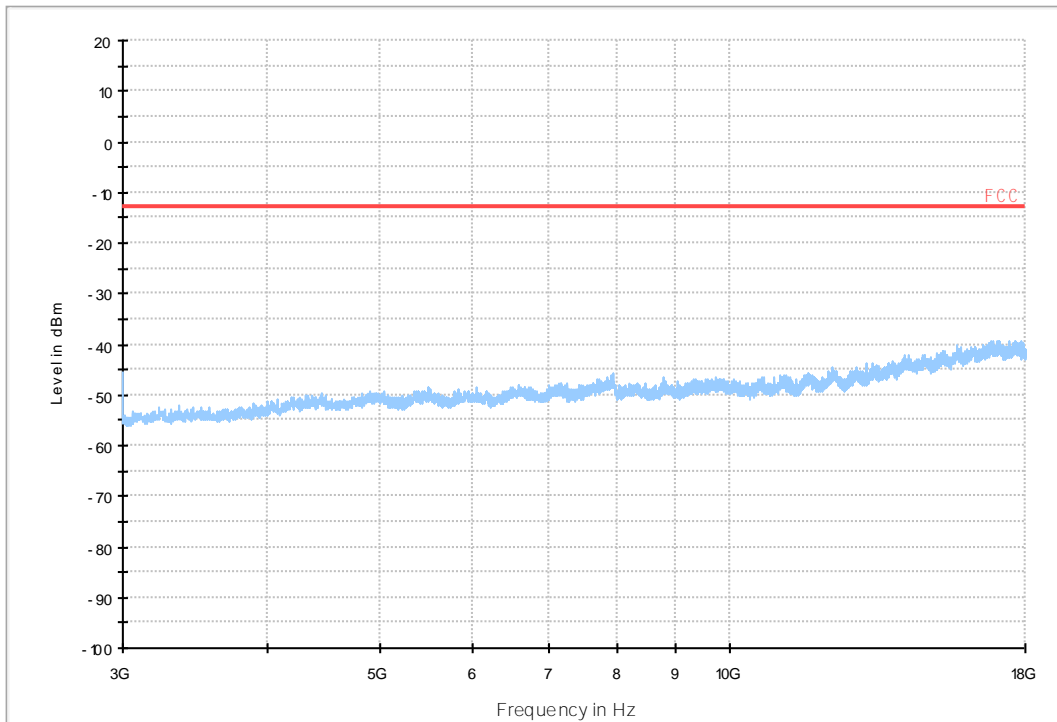
7.1.2.1 Test Bandwidth = 1.4



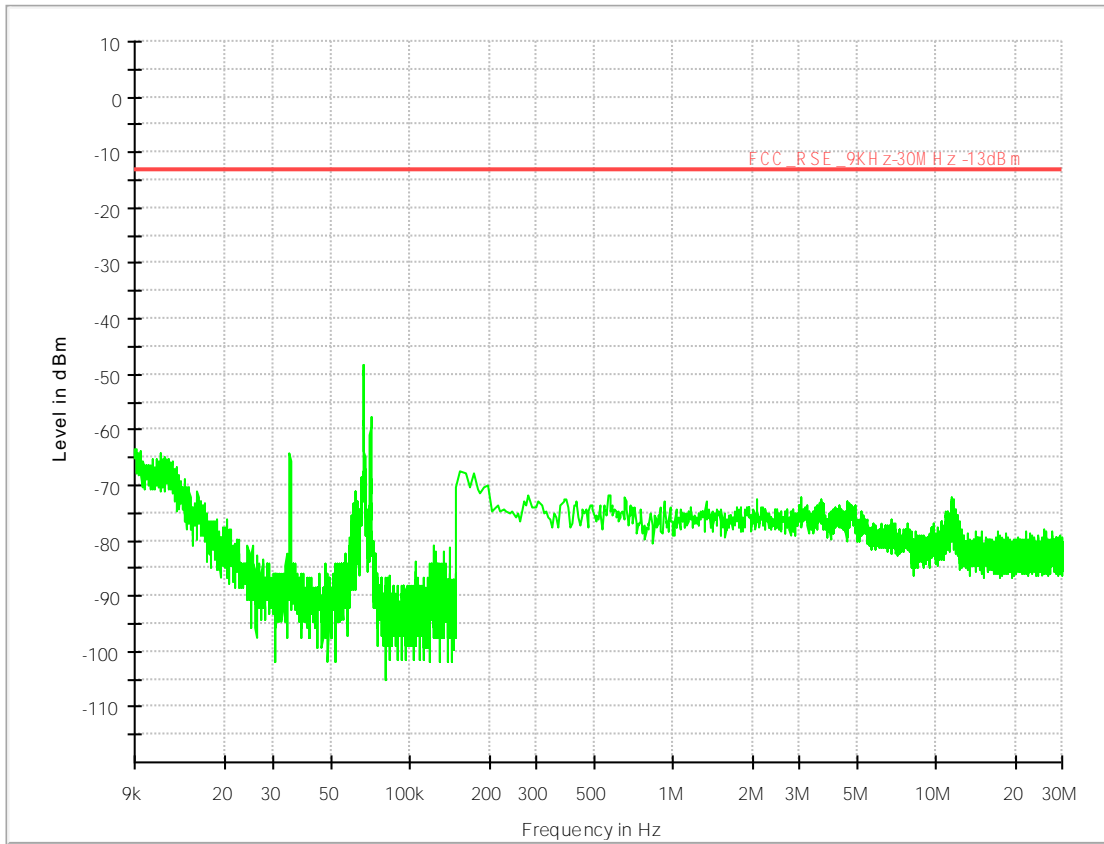
LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



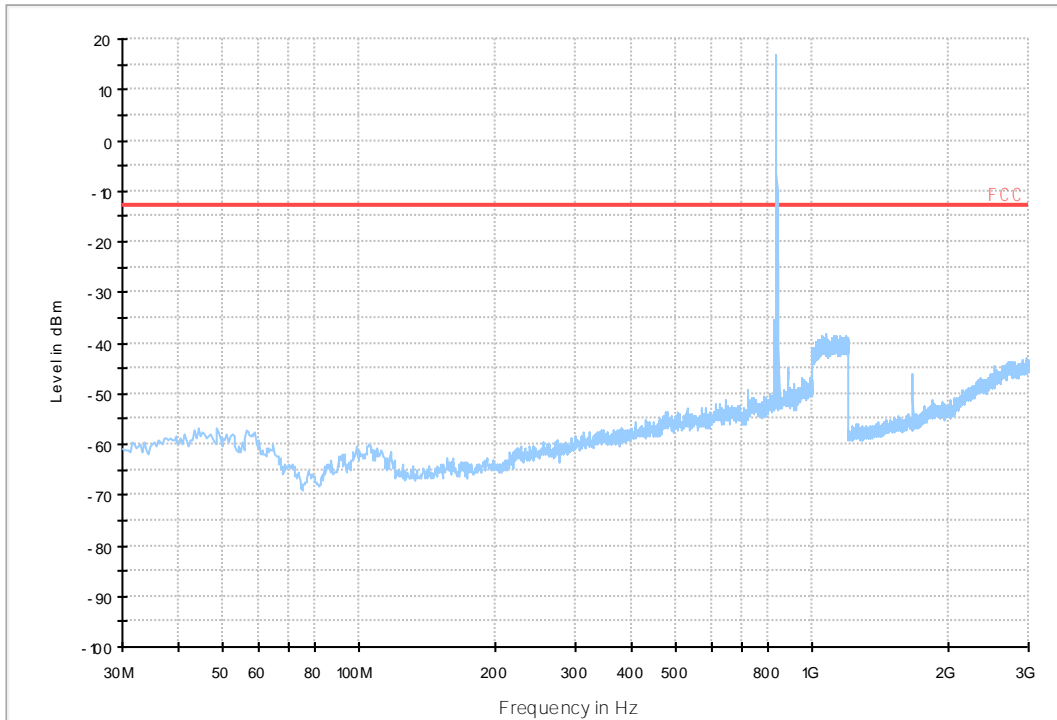
LTE FDD RSE-TX-DIRECTOR BELOW 1G_H



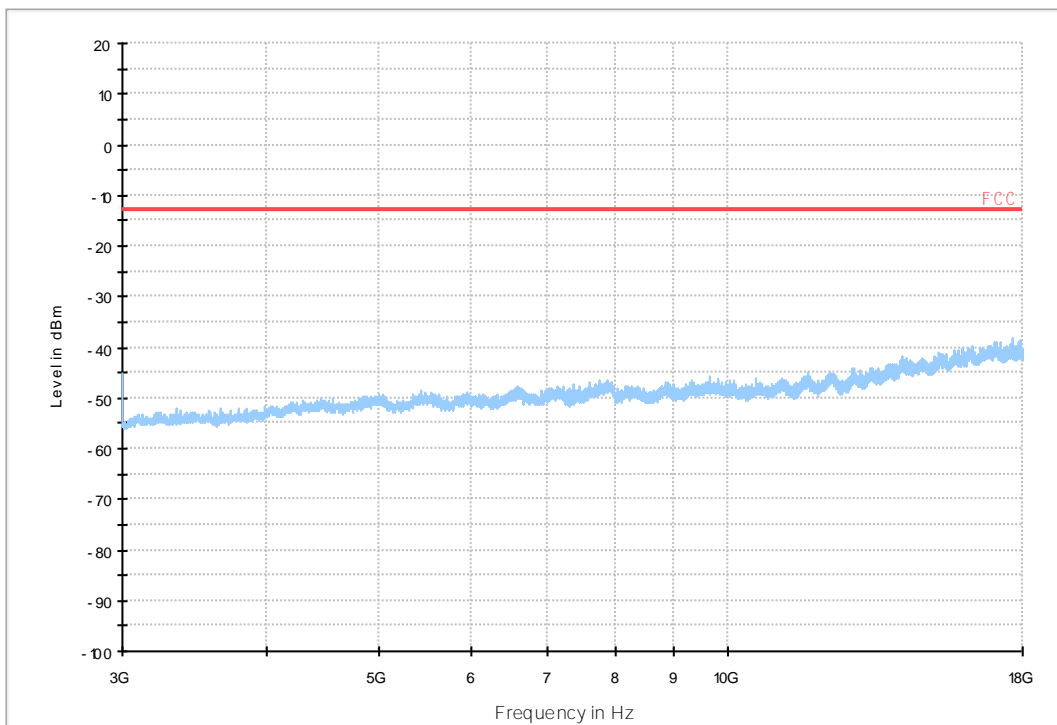
7.1.2.2 Test Bandwidth = 5



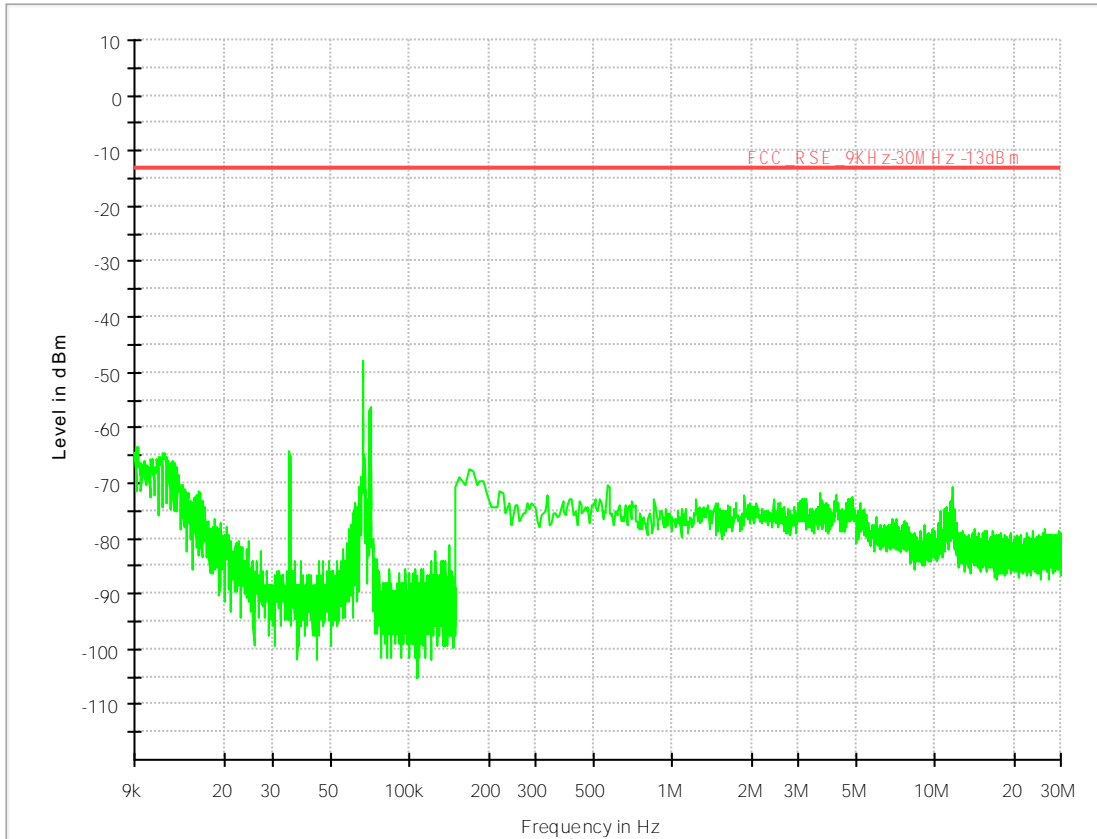
LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



LTE FDD RSE-TX-DIRECTOR BELOW 1G_H

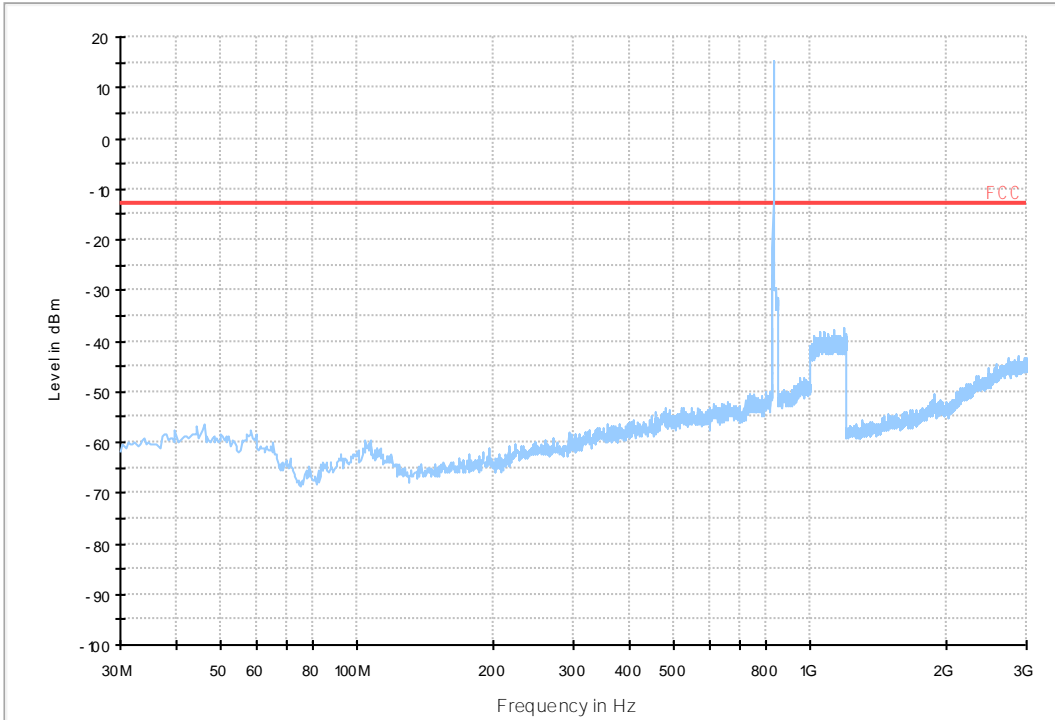


7.1.2.3 Test Bandwidth = 10

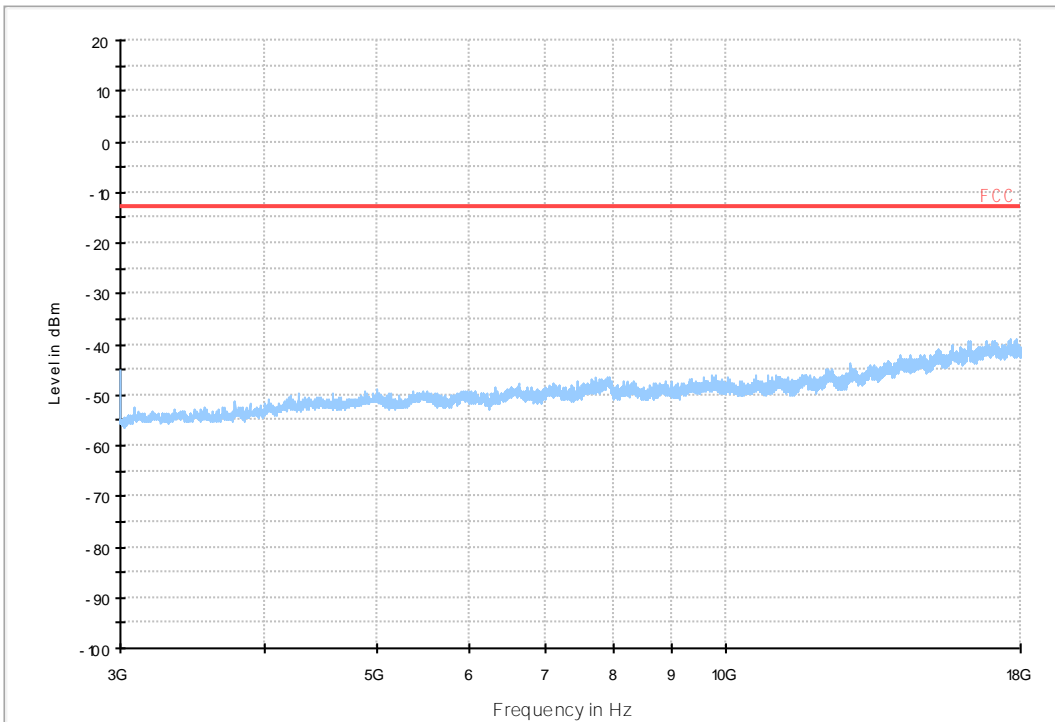




LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



LTE FDD RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	1.4	LCH	TN	VL	5.79357	0.00703	PASS
					VN	25.10548	0.03044	PASS
					VH	-21.95835	-0.02663	PASS
			MCH	TN	VL	4.10557	0.00491	PASS
					VN	-1.17302	-0.0014	PASS
					VH	-6.1512	-0.00735	PASS
			HCH	TN	VL	-4.4775	-0.00528	PASS
					VN	-1.1158	-0.00132	PASS
					VH	-6.66618	-0.00786	PASS
		3	LCH	TN	VL	8.92639	0.01081	PASS
					VN	-4.54903	-0.00551	PASS
					VH	-5.3072	-0.00643	PASS
			MCH	TN	VL	1.81675	0.00217	PASS
					VN	0	0	PASS
					VH	-1.05858	-0.00127	PASS
			HCH	TN	VL	-6.9952	-0.00825	PASS
					VN	-3.59058	-0.00424	PASS
					VH	-0.22888	-0.00027	PASS
		5	LCH	TN	VL	0.2718	0.00033	PASS
					VN	-2.01702	-0.00244	PASS
					VH	1.14441	0.00138	PASS
			MCH	TN	VL	2.43187	0.00291	PASS
					VN	0.01431	0.00002	PASS
					VH	-2.56062	-0.00306	PASS
			HCH	TN	VL	10.15663	0.012	PASS
					VN	-2.37465	-0.00281	PASS
					VH	1.37329	0.00162	PASS
		10	LCH	TN	VL	-0.58651	-0.00071	PASS
					VN	-1.07288	-0.00129	PASS
					VH	2.81811	0.0034	PASS
			MCH	TN	VL	-1.41621	-0.00169	PASS
					VN	-1.23024	-0.00147	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
	LTE/TM2		HCH	TN	VH	1.83106	0.00219	PASS	
					VL	-4.16279	-0.00493	PASS	
					VN	-6.65188	-0.00788	PASS	
					VH	0.80109	0.00095	PASS	
		1.4	LCH	TN	VL	1.31607	0.0016	PASS	
					VN	-7.89642	-0.00957	PASS	
					VH	-10.84328	-0.01315	PASS	
			MCH	TN	VL	-0.85831	-0.00103	PASS	
					VN	-8.25405	-0.00987	PASS	
					VH	8.18253	0.00978	PASS	
			HCH	TN	VL	10.72884	0.01265	PASS	
					VN	-10.0708	-0.01187	PASS	
					VH	0.91553	0.00108	PASS	
			3	LCH	TN	VL	-4.80652	-0.00582	PASS
						VN	-1.90258	-0.0023	PASS
						VH	-1.60217	-0.00194	PASS
		MCH		TN	VL	-5.66483	-0.00677	PASS	
					VN	1.35899	0.00162	PASS	
					VH	-0.50068	-0.0006	PASS	
		HCH		TN	VL	-0.50068	-0.00059	PASS	
					VN	7.65324	0.00903	PASS	
					VH	-3.33309	-0.00393	PASS	
		5	LCH	TN	VL	1.74522	0.00211	PASS	
					VN	-4.2057	-0.00509	PASS	
					VH	-1.53065	-0.00185	PASS	
			MCH	TN	VL	4.67777	0.00559	PASS	
					VN	-1.64509	-0.00197	PASS	
					VH	-7.65324	-0.00915	PASS	
			HCH	TN	VL	0.5722	0.00068	PASS	
					VN	-3.24726	-0.00384	PASS	
					VH	0.68665	0.00081	PASS	
		10	LCH	TN	VL	3.30448	0.00399	PASS	
					VN	2.47478	0.00299	PASS	
					VH	1.14441	0.00138	PASS	
			MCH	TN	VL	-0.70095	-0.00084	PASS	
					VN	-2.17438	-0.0026	PASS	
					VH	0.18597	0.00022	PASS	
			HCH	TN	VL	-6.12259	-0.00725	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-5.70774	-0.00676	PASS
					VH	-3.69072	-0.00437	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	1.4	LCH	VN	-30	9.05514	0.01098	PASS
					-20	-4.32015	-0.00524	PASS
					-10	8.19683	0.00994	PASS
					0	-4.7636	-0.00578	PASS
					10	-2.60353	-0.00316	PASS
					20	25.10548	0.03044	PASS
					30	-9.12666	-0.01107	PASS
					40	-21.18587	-0.02569	PASS
					50	6.58035	0.00798	PASS
			MCH	VN	-30	-4.00543	-0.00479	PASS
					-20	-15.02037	-0.01796	PASS
					-10	0.87261	0.00104	PASS
					0	1.71661	0.00205	PASS
					10	-6.13689	-0.00734	PASS
					20	-1.17302	-0.0014	PASS
					30	0.22888	0.00027	PASS
					40	8.111	0.0097	PASS
					50	2.11716	0.00253	PASS
		HCH	VN	-30	13.26084	0.01563	PASS	
				-20	14.63413	0.01725	PASS	
				-10	4.93527	0.00582	PASS	
				0	-9.58443	-0.0113	PASS	
				10	0.44346	0.00052	PASS	
				20	-1.1158	-0.00132	PASS	
				30	5.45025	0.00642	PASS	
				40	17.39502	0.02051	PASS	
				50	4.11987	0.00486	PASS	
3	LCH	VN	-30	5.8794	0.00712	PASS		
			-20	0.65804	0.0008	PASS		
			-10	-6.90937	-0.00837	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-2.08855	-0.00253	PASS
					10	-7.49588	-0.00908	PASS
					20	-4.54903	-0.00551	PASS
					30	0.32902	0.0004	PASS
					40	-6.03676	-0.00731	PASS
					50	9.55582	0.01158	PASS
			MCH	VN	-30	1.85966	0.00222	PASS
					-20	-6.13689	-0.00734	PASS
					-10	2.31743	0.00277	PASS
					0	0.41485	0.0005	PASS
					10	-9.67026	-0.01156	PASS
					20	0	0	PASS
					30	1.08719	0.0013	PASS
			HCH	VN	-30	-8.19683	-0.00967	PASS
					-20	10.78606	0.01273	PASS
					-10	-7.68185	-0.00906	PASS
					0	0.10014	0.00012	PASS
					10	5.65052	0.00667	PASS
		20			-3.59058	-0.00424	PASS	
		30			5.23567	0.00618	PASS	
		5	LCH	VN	40	5.69344	0.00672	PASS
					50	5.17845	0.00611	PASS
					-30	-6.58035	-0.00796	PASS
					-20	-11.17229	-0.01352	PASS
					-10	5.5933	0.00677	PASS
					0	-3.13282	-0.00379	PASS
					10	-3.41892	-0.00414	PASS
					20	-2.01702	-0.00244	PASS
					30	3.44753	0.00417	PASS
		MCH	VN	40	-2.2459	-0.00272	PASS	
				50	2.26021	0.00273	PASS	
				-30	7.06673	0.00845	PASS	
				-20	0.41485	0.0005	PASS	
-10	-0.2861			-0.00034	PASS			
					0	3.46184	0.00414	PASS
					10	-1.1158	-0.00133	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					20	0.01431	0.00002	PASS	
					30	-1.61648	-0.00193	PASS	
					40	-1.85966	-0.00222	PASS	
					50	8.3828	0.01002	PASS	
			HCH	VN	-30	1.43051	0.00169	PASS	
					-20	3.84808	0.00455	PASS	
					-10	6.45161	0.00762	PASS	
					0	6.66618	0.00787	PASS	
					10	2.77519	0.00328	PASS	
					20	-2.37465	-0.00281	PASS	
					30	0.65804	0.00078	PASS	
					40	-0.58651	-0.00069	PASS	
		50	0.2718	0.00032	PASS				
		LCH	VN	-30	1.43051	0.00173	PASS		
				-20	1.53065	0.00185	PASS		
				-10	-5.04971	-0.00609	PASS		
				0	-2.2316	-0.00269	PASS		
				10	-1.08719	-0.00131	PASS		
				20	-1.07288	-0.00129	PASS		
				30	1.18732	0.00143	PASS		
				40	-0.35763	-0.00043	PASS		
				50	-0.95844	-0.00116	PASS		
				MCH	VN	-30	-1.02997	-0.00123	PASS
						-20	-2.48909	-0.00298	PASS
						-10	-3.57628	-0.00428	PASS
		0	-0.88692			-0.00106	PASS		
		10	-0.34332			-0.00041	PASS		
		20	-1.23024			-0.00147	PASS		
		30	-0.8297			-0.00099	PASS		
		40	-3.14712			-0.00376	PASS		
		50	-3.37601	-0.00404	PASS				
		HCH	VN	-30	-5.50747	-0.00653	PASS		
				-20	-2.86102	-0.00339	PASS		
				-10	-5.5933	-0.00663	PASS		
				0	-5.36442	-0.00636	PASS		
				10	-2.73228	-0.00324	PASS		
20	-6.65188			-0.00788	PASS				
30	-3.0899			-0.00366	PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	1.4	LCH	VN	40	-3.14712	-0.00373	PASS
					50	-4.33445	-0.00514	PASS
					-30	-1.02997	-0.00125	PASS
					-20	10.60009	0.01285	PASS
					-10	-10.3426	-0.01254	PASS
					0	2.13146	0.00258	PASS
					10	8.98361	0.01089	PASS
					20	-7.89642	-0.00957	PASS
			30	12.0306	0.01459	PASS		
			40	-1.25885	-0.00153	PASS		
			50	3.41892	0.00415	PASS		
			MCH	VN	-30	5.62191	0.00672	PASS
					-20	-1.05858	-0.00127	PASS
					-10	7.92503	0.00947	PASS
					0	2.11716	0.00253	PASS
					10	-7.36713	-0.00881	PASS
		20			-8.25405	-0.00987	PASS	
		30			-16.30783	-0.0195	PASS	
		40			-8.44002	-0.01009	PASS	
		HCH	VN	50	-3.69072	-0.00441	PASS	
				-30	-6.66618	-0.00786	PASS	
				-20	7.88212	0.00929	PASS	
				-10	14.30511	0.01686	PASS	
				0	3.41892	0.00403	PASS	
				10	26.2785	0.03098	PASS	
				20	-10.0708	-0.01187	PASS	
				30	15.79285	0.01862	PASS	
		3	LCH	VN	40	12.66003	0.01492	PASS
					50	12.67433	0.01494	PASS
					-30	2.60353	0.00315	PASS
					-20	-3.73364	-0.00452	PASS
					-10	-4.10557	-0.00497	PASS
0	3.93391				0.00477	PASS		
10	-4.26292				-0.00516	PASS		
20	-1.90258				-0.0023	PASS		
30	1.30177	0.00158	PASS					
40	-0.60081	-0.00073	PASS					
50	1.98841	0.00241	PASS					



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		5	MCH	VN	-30	-1.14441	-0.00137	PASS
					-20	2.90394	0.00347	PASS
					-10	0.75817	0.00091	PASS
					0	-0.01431	-0.00002	PASS
					10	-3.71933	-0.00445	PASS
					20	1.35899	0.00162	PASS
					30	0.01431	0.00002	PASS
					40	6.93798	0.00829	PASS
					50	-2.43187	-0.00291	PASS
			HCH	VN	-30	-2.08855	-0.00246	PASS
					-20	-4.37737	-0.00517	PASS
					-10	-10.41412	-0.01229	PASS
					0	-6.95229	-0.0082	PASS
					10	-2.11716	-0.0025	PASS
					20	7.65324	0.00903	PASS
					30	2.73228	0.00322	PASS
					40	5.14984	0.00608	PASS
					50	-2.57492	-0.00304	PASS
		5	LCH	VN	-30	-0.12875	-0.00016	PASS
					-20	-2.73228	-0.00331	PASS
					-10	0.24319	0.00029	PASS
					0	1.80244	0.00218	PASS
					10	-3.74794	-0.00453	PASS
					20	-4.2057	-0.00509	PASS
					30	7.85351	0.0095	PASS
					40	0.62943	0.00076	PASS
					50	1.3876	0.00168	PASS
			MCH	VN	-30	-4.60625	-0.00551	PASS
					-20	3.76225	0.0045	PASS
					-10	5.27859	0.00631	PASS
					0	1.93119	0.00231	PASS
					10	0.2861	0.00034	PASS
					20	-1.64509	-0.00197	PASS
HCH	VN	30	-1.50204	-0.0018	PASS			
		40	-3.13282	-0.00375	PASS			
		50	-6.07967	-0.00727	PASS			
			HCH	VN	-30	1.04427	0.00123	PASS
					-20	3.41892	0.00404	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-10	1.74522	0.00206	PASS		
					0	1.07288	0.00127	PASS		
					10	0.2718	0.00032	PASS		
					20	-3.24726	-0.00384	PASS		
					30	1.78814	0.00211	PASS		
					40	8.19683	0.00968	PASS		
					50	3.19004	0.00377	PASS		
		10	LCH	VN	-30	1.41621	0.00171	PASS		
					-20	-0.68665	-0.00083	PASS		
					-10	3.3617	0.00406	PASS		
					0	0.34332	0.00041	PASS		
					10	-0.62943	-0.00076	PASS		
					20	2.47478	0.00299	PASS		
					30	-1.53065	-0.00185	PASS		
					40	0.98705	0.00119	PASS		
					50	0.52929	0.00064	PASS		
					MCH	VN	-30	2.21729	0.00265	PASS
							-20	-2.2459	-0.00268	PASS
							-10	-2.36034	-0.00282	PASS
							0	-3.6478	-0.00436	PASS
							10	-4.04835	-0.00484	PASS
							20	-2.17438	-0.0026	PASS
							30	1.80244	0.00215	PASS
							40	1.25885	0.0015	PASS
					HCH	VN	50	-0.25749	-0.00031	PASS
							-30	-3.97682	-0.00471	PASS
							-20	-4.37737	-0.00519	PASS
							-10	-8.81195	-0.01044	PASS
		0	-5.43594	-0.00644			PASS			
		10	-7.267	-0.00861			PASS			
		20	-5.70774	-0.00676			PASS			
		30	-5.17845	-0.00614			PASS			
40	-5.76496	-0.00683	PASS							
50	-2.10285	-0.00249	PASS							

END